

**Trough Workshop
FY00**

**Operation & Maintenance
Task Plan**

August 16-18, 1999

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O&M Task Justification

- O&M directly impacts plant performance
- O&M comprises a significant cost in plant operation
- O&M issues fundamental to plant sustainability
- O&M strategies significantly impact: plant performance, revenue, and costs

O&M Task Objectives

- A.) Develop O&M strategies / methods / tools for current SEGS to improve plant performance and promote sustainability**
- B.) Provide access to SunLab expertise when needed**
- C.) Develop O&M strategies / methods / tools to significantly reduce O&M costs in future plants**

O&M Task Objectives - Activities

A.) Develop O&M strategies / methods / tools for current SEGS to improve plant performance and promote sustainability

- Improve tools / methods for Mirror / HCE (glass) cleaning**
- Develop simple/routine solar field alignment methodologies / tools**
- Develop 3-5 day weather forecasting (better outage planning)**
- Installation of Replacement Mirrors & HCEs**
- Joint effort: Flexhoses or Balljoints at SEGS 8 & 9**

O&M Task Objectives - Activities

B.) Provide access to SunLab expertise when needed

- Development of Mirror Replacement Facets
(thin glass and/or “first surface”)**
- Development of HCE replacement(s)**
- Provide industry assistance support**

O&M Task Objectives - Activities

C.) Develop O&M strategies / methods / tools to significantly reduce O&M costs in future Trough Plants

- Assess Impact of Predictive Maintenance Strategies**
- Compile lessons learned in both power blocks and solar field that impact basic plant design**
- Develop hourly weather prediction tools**

Operation & Maintenance Task

Objectives

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A.) O&M strategies current SEGS

B.) Access to SunLab expertise

C.) O&M strategies future Trough Plants
